

**Seervision AG**  
Hohlstrasse 186  
8004 Zurich  
Switzerland

### Work Certificate

To whom it may concern,

Ms. Kaiyue Shen, born on August 20, 1997, completed an internship at Seervision AG in Zurich as part of the perception team in the role of a Computer Vision Intern from September 13, 2021 to March 11, 2022 in full time capacity.

Seervision AG is a growing Swiss Startup, with an international customer base, leading in the development of automation tools for live corporate video productions. We have offices in Zurich and Athens, and currently employ about 35 people.

Ms. Kaiyue Shen was responsible for the following projects, under supervision of and in collaboration with the perception team:

- Implementation of a false positives filter to remove phantoms wrongly detected by the person detector.
- Implementation of a non\_limbs version of the person detector to do a series of relevant interesting experiments.
- Implementation of a double detections filter to improve the robustness of the person reidentification in the occlusion case.
- Organization of the data collection in the studio and processing the datasets for use in the training and evaluation of the person reidentification task.
- Prototyping, implementing, and benchmarking state-of-the-art approaches in person reidentification from different dimensions.
- Investigation of the effect of different factors of the input image on the embedding distance in order to better understand the failure cases.
- Analysis and documentation of failure cases from the feedback of the customers or during the demo.

During her time at Seervision, Ms. Shen demonstrated a solid understanding of machine learning and software engineering. She was able to work independently and complete her tasks to our fullest satisfaction. We particularly appreciated her well-maintained documentation and reports that enabled us to identify potential research directions. She also demonstrated her strong coordination capability when asked to organize a data collection session.

Ms. Shen has consistently shown her commitment and dedication to her work. She is reliable, hard-working, and a team player. Thanks to her pleasant disposition, Ms. Shen also integrated well in a new environment and formed good relationships with her colleagues. She actively took part in all kinds of activities held by the company and on occasion shared her well-received homemade traditional desserts.

On March 11, 2022, Ms. Shen completed her 6-month internship with us. We wish her all the best and continued success in her professional and personal endeavours.

Zurich, 11.04.2022



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Lucy Brandenberger  
Perception Lead